5.3 Practice: Probability of Independent Events Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. A) Westley tosses a coin twice. Draw a table to show all possible outcomes.

b) What is the probability of Westley tossing two heads?

c) What is the probability of Westley tossing a head and tail (any order?)

d) What is the probability of Westley tossing two tails?

1. A) Maddy makes a spinner to see what kind of picture she is going to draw for her little sister: Unicorn, Butterfly, or Pineapple picture. She lets her brother throw a six-sided die to decide how many colours she is going to use. Use a tree diagram to determine all possible outcomes.

b) What is the probability that she will draw her sister a pineapple with four colours?

c) What is the probability that she will draw a unicorn with less than four colours?

d) What is the probability that she won’t draw a butterfly?

1. A) Jesse has a spinner with four fruits (banana, orange, dragon fruit, kiwi)for his fruit eating challenge for Dylan. He write on popsicle sticks the name of the challenge and puts them into a bag (eat with hands behind back, eat blind folded, eat while watching parasite video)

Draw either a table or tree diagram to show all possible outcomes

b) What is the probability that Dylan will be eating a kiwi while blind folded?

c) What is the probability that Dylan will be eating a fruit while watching a parasite video?

d) What is the probability that Dylan will NOT be eating an orange with his hands behind his back?

e) What is the probability of Dylan eating an apricot with his hands behind his back?

f) What is the probability of Dylan eating an orange while singing to Kelci?

1. Kolton write the names of five friends on equal sized pieces of paper (Quintin, Justin, Casey, Nadia and Payton). He then makes a spinner with three things that he could give away as a surprise gift (a day pass to curling, a cloud in a bottle, red mathlete pencil that he found on the ground).
2. Draw a table or tree diagram to show the sample space
3. What is the probability that Justin is going to get the red pencil?
4. What is the probability that a girl will get the cloud in a bottle?
5. What is the probability that Quintin will get a smurf eraser from Kolton?
6. What is the probability that Kolton is going to give Mrs. Kidd a day pass to curling?
7. What is the probability that Casey won’t get a red pencil?
8. Dawson has a deck of 52 cards without the jokers.
9. What is the probability of him drawing a red card? P(red)
10. What is P(heart)
11. What is P(king of clubs)
12. What is P(ace)
13. What is P(face card)
14. For our floor hockey tournament Mrs. Kidd puts the names of three students in a bag to see which will be a ref (Kelci, Nadia, and Justin H.). On a six sided die, she glues the pictures (Jella, Mat, Noah, Brandon, Meagan, Elisandro) of the team captain that will challenge the “GOOD GUYS” team (Mrs.K’s team).

Draw a table or tree diagram to show the sample space:

1. What is the probability that Kelci will ref while Meagan is the captain?
2. What is the probability that Justin H. will ref while Brandon is the captain?
3. What is the probability that Nadia will ref with a boy captain?
4. What is the probability that Justin won’t ref with Noah?
5. CHALLENGE QUESTION (you will probably want to use the tree diagram to figure this one out!)

Quintin tosses a coin THREE TIMES! What are all of the possible outcomes?

b) What is the probability of tossing three tails?

c) What is the probability of tossing two heads and a tail (in any order)